## AMENDMENTS TO THE CLAIMS

1.	(Currently Amended) A system for managing data transactions between a			
first bus and a second bus, comprising:				
a first transaction conversion module operably connected coupled to said first bus,				
	said first transaction conversion module being operable to receive			
	transactions from said first bus in a first format and to convert said			
	transactions into an internal format;			
a fully programmable ordering rules logic module operably connected coupled to				
	said first transaction module to receive said converted transactions in said			
	internal format and to control issuing of said transactions in accordance			
	with a dependency relationship between individual converted transactions			
and further operable to issue validated transactions through a plurality of				
virtual channels using an inter-virtual channel arbiter and a plurality of				
	intra-virtual channel arbiters; and			
a second transaction conversion module operably connected coupled to said				
	transaction ordering logic module and to said second bus, said second			
	transaction conversion module being operable to convert said validated			
	transactions into a second format for said second bus.			
	(Original) The system of claim 1, wherein transactions on said first			
bus are managed using a first set of ordering rules and transactions on said second bus are				
managed usin	g a second set of ordering rules.			
3	(Previously Presented) The system of claim 1, wherein said			
	omprise a time stamp and wherein said ordering rules logic module is			
	se said time stamp to issue said validated transactions.			
operable to us	e said time stamp to issue said vandated transactions.			
4.	(Original) The system of claim 3, wherein said rules logic module is			
operable to validate said transactions using a protocol based on an efficiency algorithm				
	a first  a fully  a seco  2. bus are managemanaged usin  3. transactions coperable to use  4.			

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1	5.	(Original)	The system of claim 4, wherein said ordering rules logic
2	module is pro	grammed by a	configuration status register.
1	6.	Canceled	
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1	7.	Canceled	
1	8.	Canceled.	
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1	9.	Canceled.	
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1	10.	Canceled.	
1	11	Canceled.	

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Canceled

Canceled.

1	14.	(Currently Amended) A method for managing data transactions between a			
2	first bus and a second bus, comprising:				
3	receiv	ing a first transaction in a conversion module operably connected coupled			
4		to said first bus, said first transaction conversion module being operable to			
5		receive transactions from said first bus in a first format and to convert said			
6		transactions into an internal format;			
7	receiving said converted transaction in a fully programmable ordering rules logic				
8		module operably connected coupled to said first transaction module;			
9	using said ordering rules logic module to validate said converted transactions and				
10		to control issuing of validated transactions to a second transaction module			
11	in accordance with a dependency relationship between a plurality of				
12	transactions, wherein said validated transactions are issued through a				
13		plurality of virtual channels using an inter-virtual channel arbiter and a			
14		plurality of intra-virtual channel arbiters; and			
15	using a second transaction conversion module to convert said validated				
16		transactions into a second format for said second bus.			
1	15.	(Original) The method of claim 14, wherein transactions on said first			
2	bus are managed using a first set of ordering rules and transactions on said second bus are				
3	managed usin	ng a second set of ordering rules.			
1	16	(Previously Presented) The method of claim 15, wherein said			
1 2					
3	transactions comprise a time stamp and wherein said ordering rules logic module is operable to use said time stamp to issue said validated transactions.				
3	operatore to us	se said time stamp to issue said vandated transactions.			
1	17.	(Original) The method of claim 16, wherein said rules logic module is			
2	operable to va	alidate said transactions using a protocol based on an efficiency algorithm			
3	optimizing th	e availability of said second bus to accept a validated transaction.			
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The method of claim 17, wherein said ordering rules logic

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1 2 (Original)

module is programmed by a configuration status register.

- 1 19. Canceled.
- 1 20. Canceled.
- 1 21. Canceled.
- 1 22 Canceled.
- 1 23. Canceled.
- 1 24. Canceled.
- 1 25. Canceled.
- 1 26. Canceled.